

INTERNATIONAL SEARCH REPORT

International Application No PCT/FR2004/050622	
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A. CLASSIFICATION OF SUBJECT MATTER			
IPC 7	H01Q15/00	H01Q3/44	H01Q19/28
			H01Q3/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 3 560 978 A (HIMMEL LEON ET AL) 2 February 1971 (1971-02-02) the whole document	1
A	POILASNE G ET AL: "ACTIVE METALLIC PHOTONIC BAND-GRAP MATERIALS (MPBG): EXPERIMENTAL RESULTS ON BEAM SHAPER" IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE INC. NEW YORK, US, vol. 48, no. 1, January 2000 (2000-01), pages 117-119, XP000908643 ISSN: 0018-926X the whole document	2-19
Y		1
A	US 4 700 197 A (MILNE ROBERT) 13 October 1987 (1987-10-13) abstract	1-19
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex

^a Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the International filing date
"L" document which may throw doubts on priority claim(s) or which cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 May 2005	31/05/2005
Name and mailing address of the ISA European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax. (+31-70) 340-3016	Authorized officer Wattiaux, V

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 111 718 A (NIPPON ELECTRIC CO) 27 June 2001 (2001-06-27) column 1, line 13 - line 41 column 10, line 45 - column 11, line 2; figures 12,17 -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/050622

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 3560978	A 02-02-1971	BE DE ES FR GB JP SE	749080 A1 1953443 A1 373060 A1 2022375 A5 1275579 A 49032239 B 355270 B	19-10-1970 27-05-1970 16-11-1971 31-07-1970 24-05-1972 28-08-1974 09-04-1973
US 4700197	A 13-10-1987	CA DE EP JP JP JP	1239223 A1 3579650 D1 0172626 A1 1764927 C 4053322 B 61025304 A	12-07-1988 18-10-1990 26-02-1986 11-06-1993 26-08-1992 04-02-1986
EP 1111718	A 27-06-2001	JP JP AU DE DE EP US	3491682 B2 2001185947 A 7245100 A 60001709 D1 60001709 T2 1111718 A2 2001005181 A1	26-01-2004 06-07-2001 28-06-2001 24-04-2003 18-12-2003 27-06-2001 28-06-2001